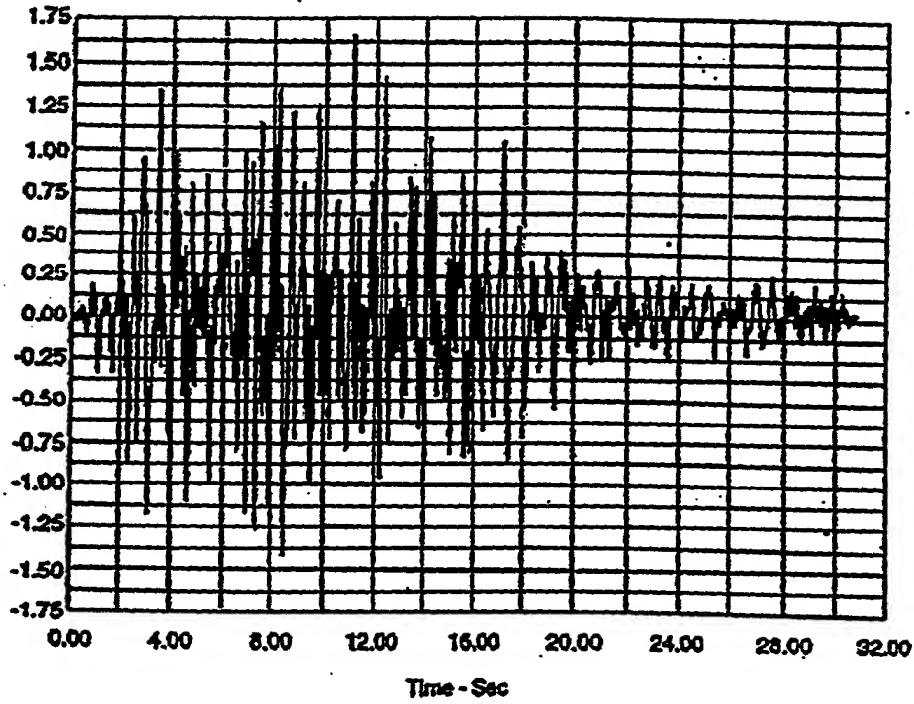
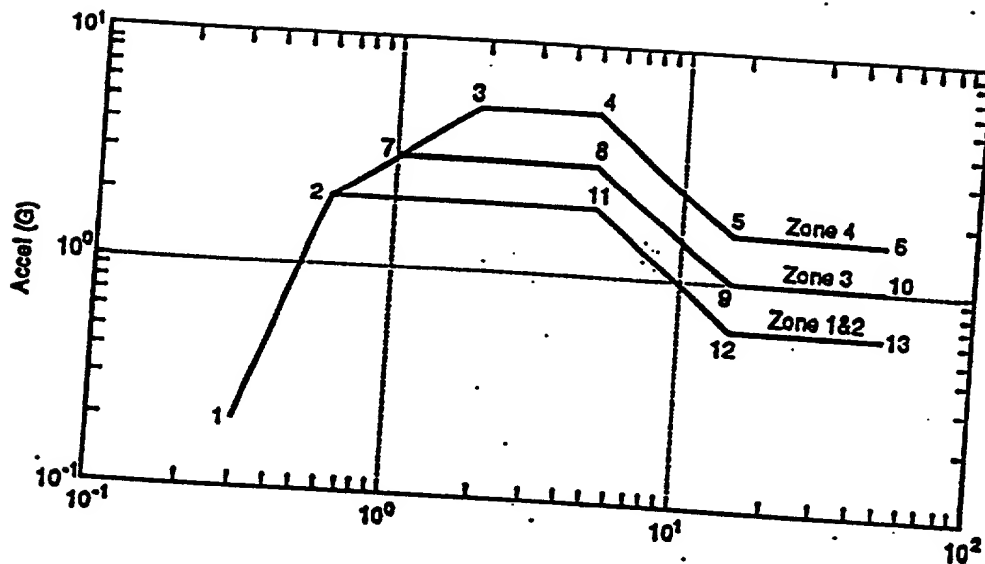


002001 50505 Acceleration - g



Earthquake Synthesized Waveform - VERTEQII

Fig 1A



Coordinate Point	Frequency (Hz)	Values for Upper Floor Acceleration (g)	Coordinate Point	Frequency (Hz)	Values for Upper Floor Acceleration (g)
Zones 1 and 2			Zone 4		
1	0.3	0.2	1	0.3	0.2
2	0.6	2.0	2	0.6	2.0
11	5.0	2.0	3	2.0	5.0
12	15.0	0.6	4	5.0	5.0
13	50.0	0.6	5	15.0	1.6
Zone 3			6	50.0	1.6
1	0.3	0.2			
2	0.6	2.0			
7	1.0	3.0			
8	5.0	3.0			
9	15.0	1.0			
10	50.0	1.0			

Fig 1B

200

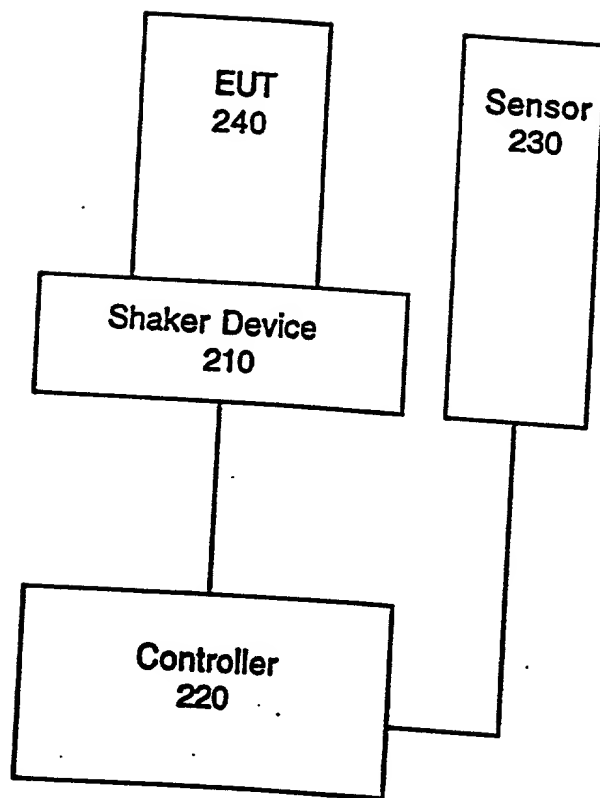


FIG 2

300

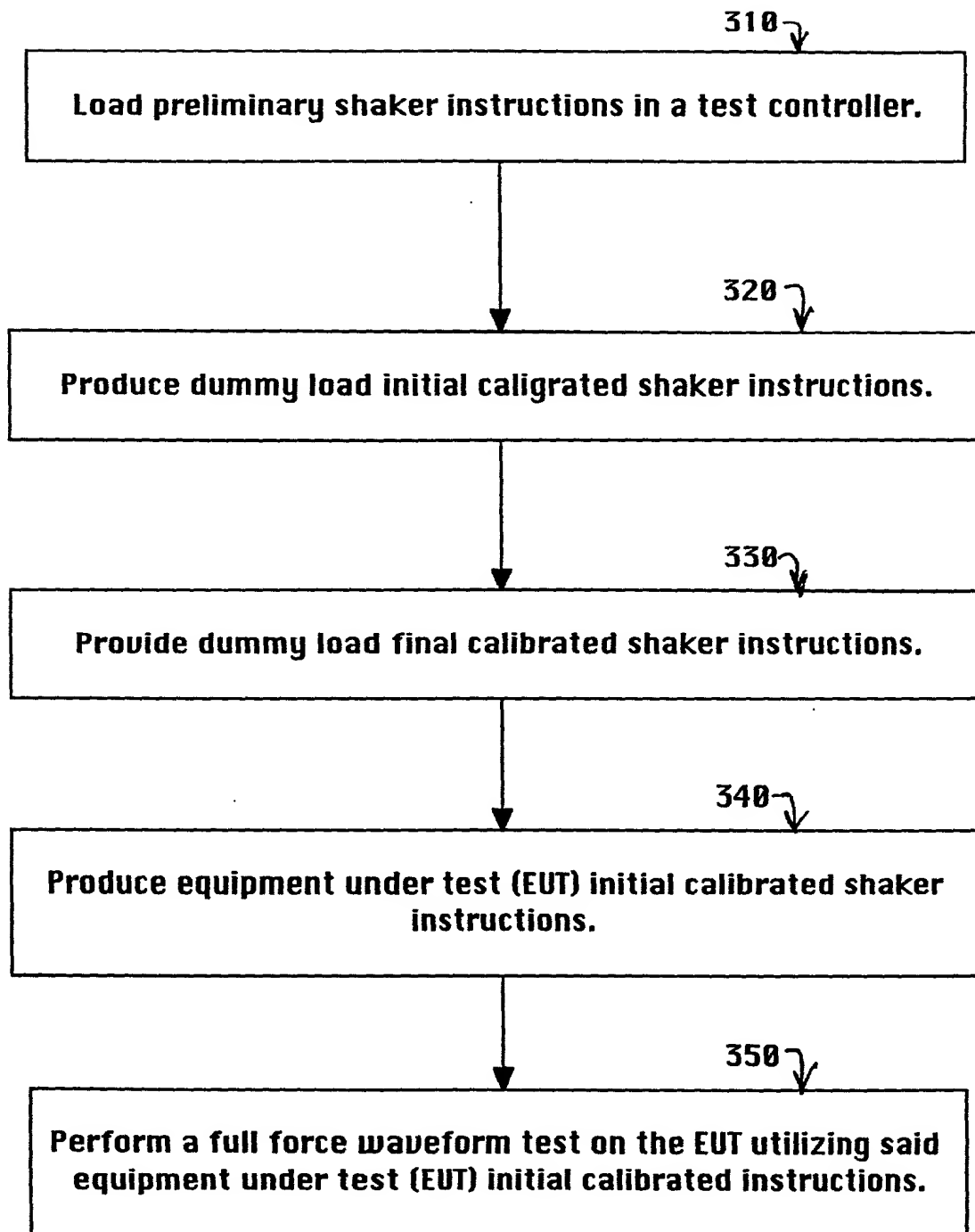


FIG. 3A

321

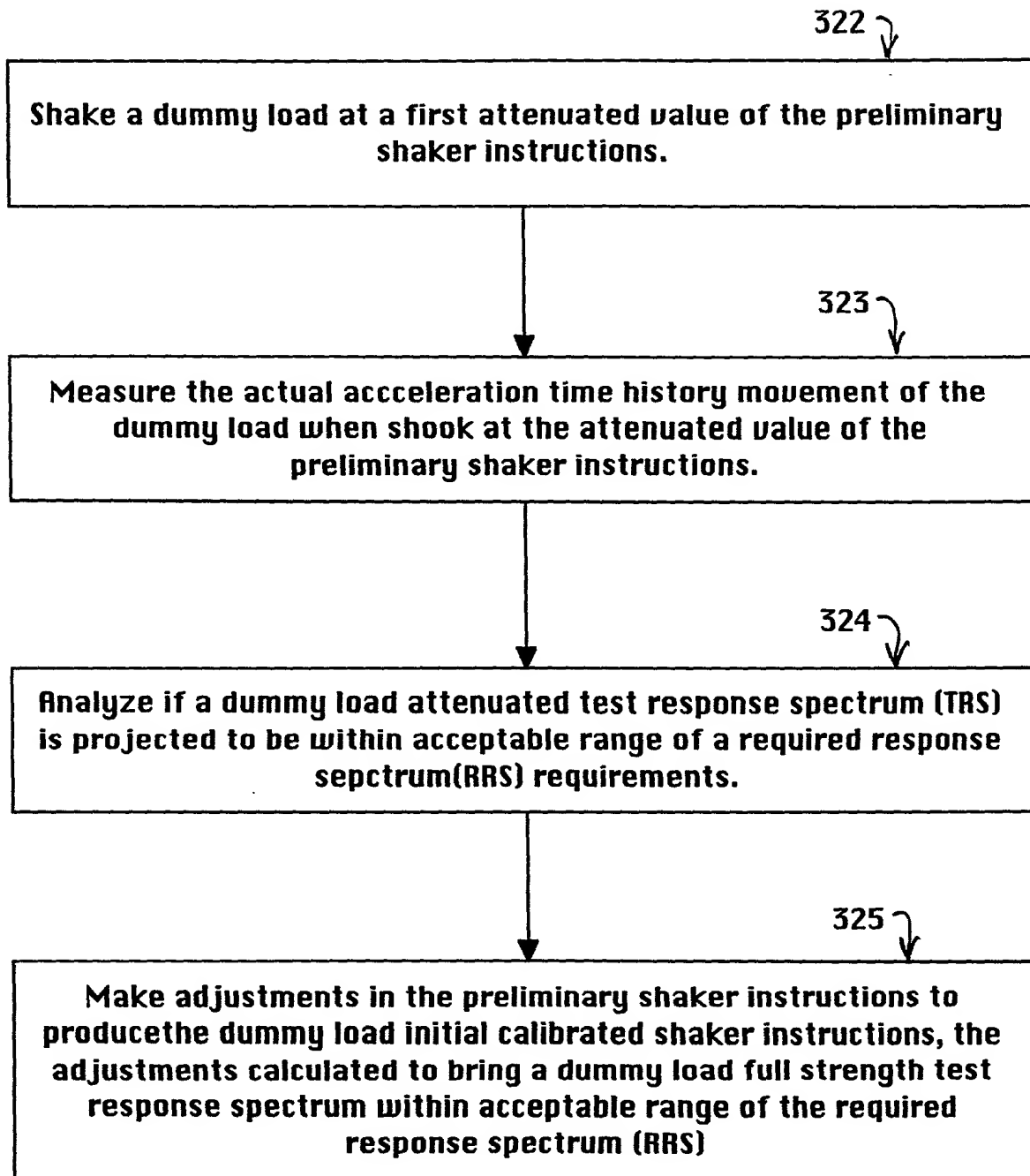


FIG 3B

331

332 ↘

Shake a dummy load at full strength value of the dummy load initial calibrated shaker instructions.

333 ↘

Measure the actual acceleration time history movement of the dummy load when shook at the full strength value of the dummy load initial calibrated shaker instructions.

334 ↘

Determine if the dummy load full strength test response spectrum (TRS) is within an acceptable range of the required response spectrum (RRS).

335 ↘

Make adujustments in the dummy load initial calibrated shaker instructions to produce the dummy load final calibrated shaker instructions, the adjustments calculated to brnig a test respons spectrum (TRS) within an acceptable range of the required response spectrum (RRS).

FIG 3C

341

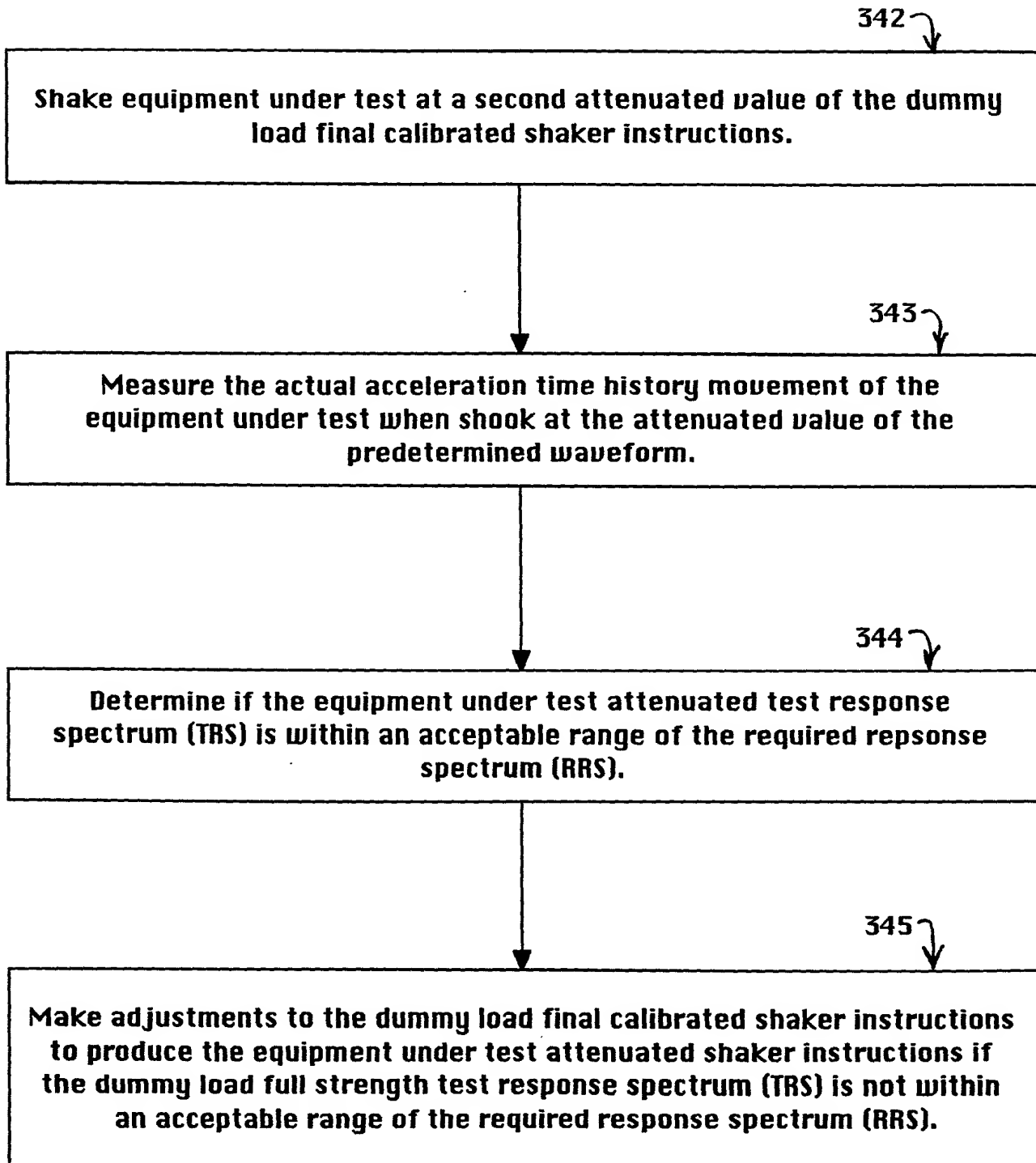


FIG 3D

351

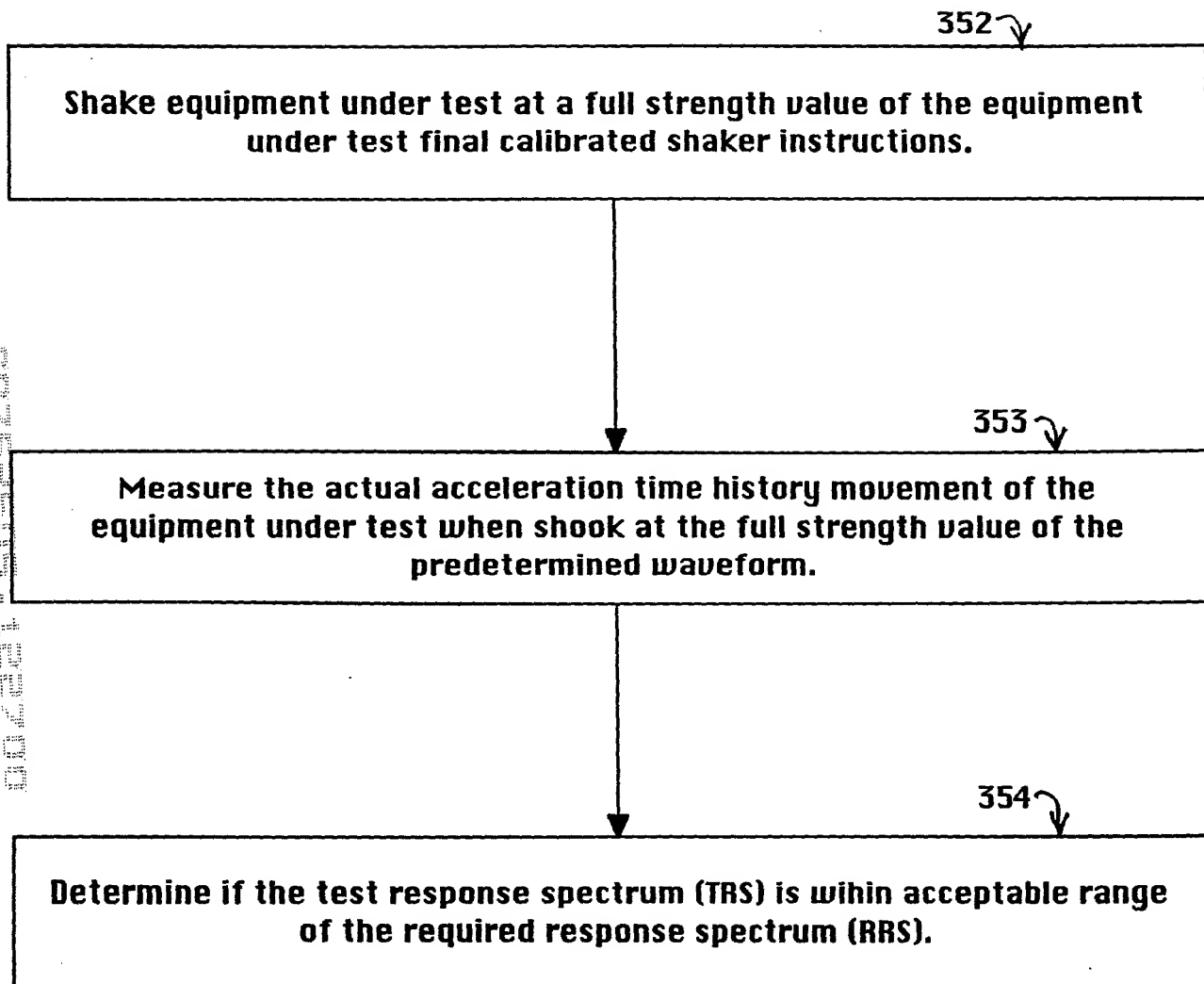


FIG 3E

400

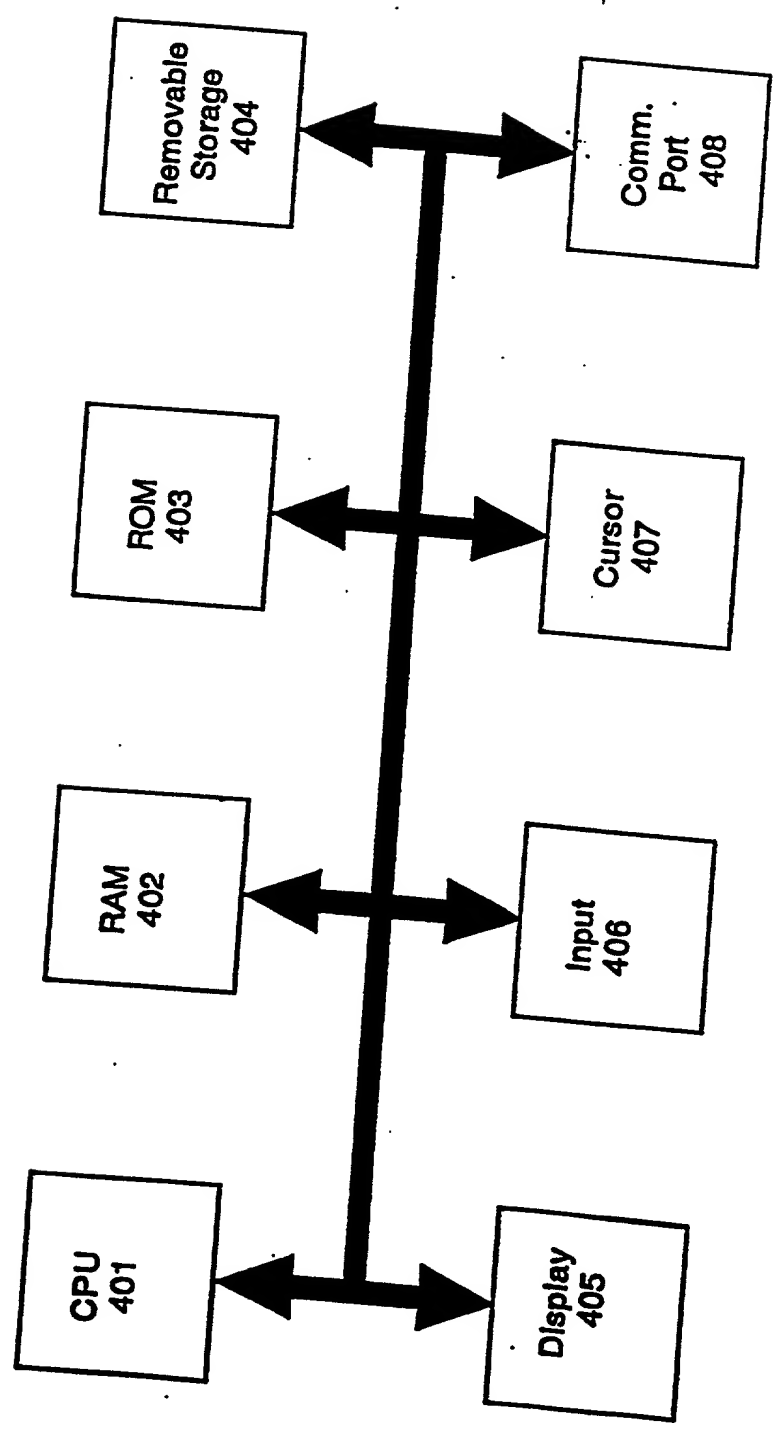


FIG 4

500

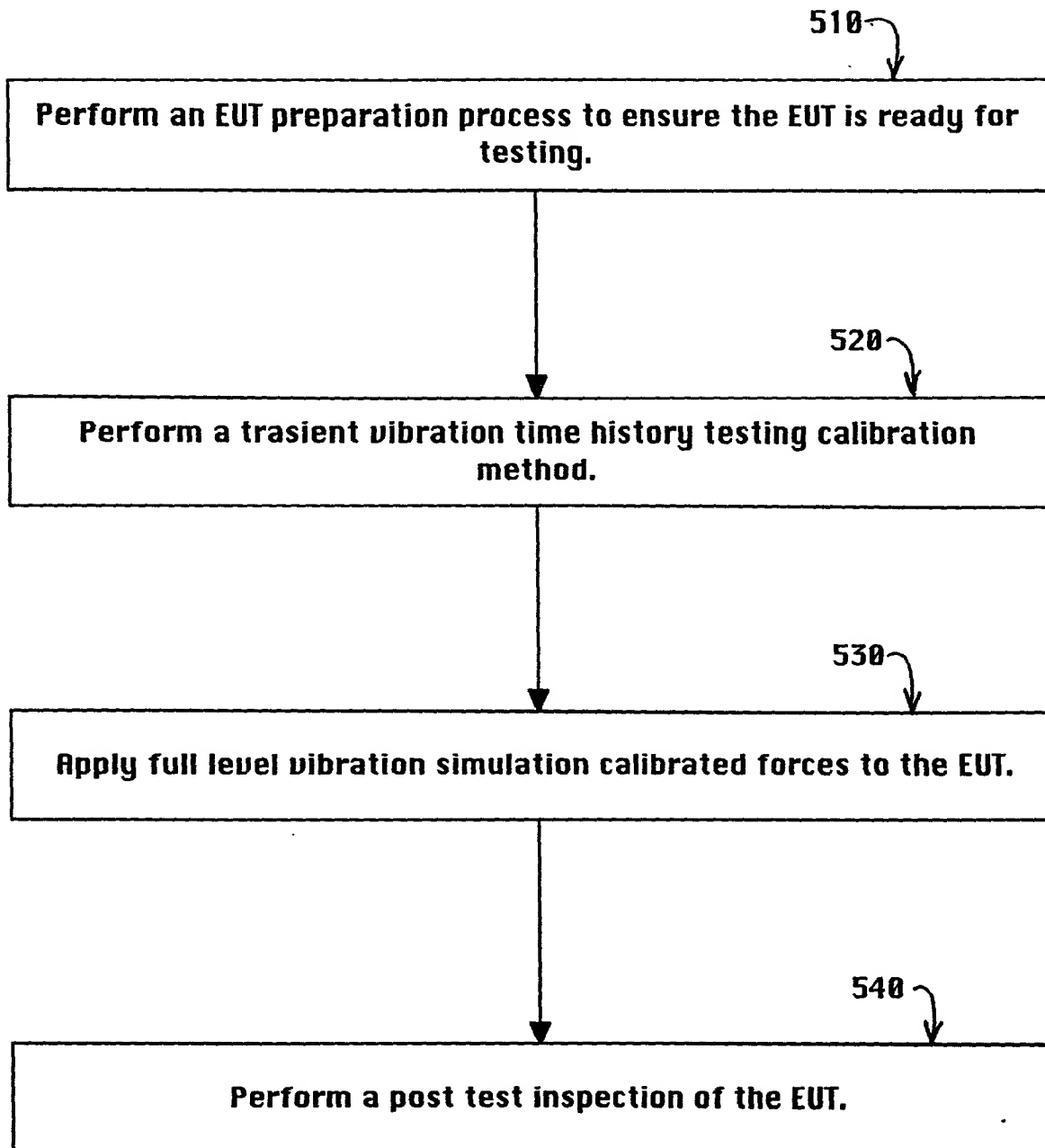


FIG 5

600

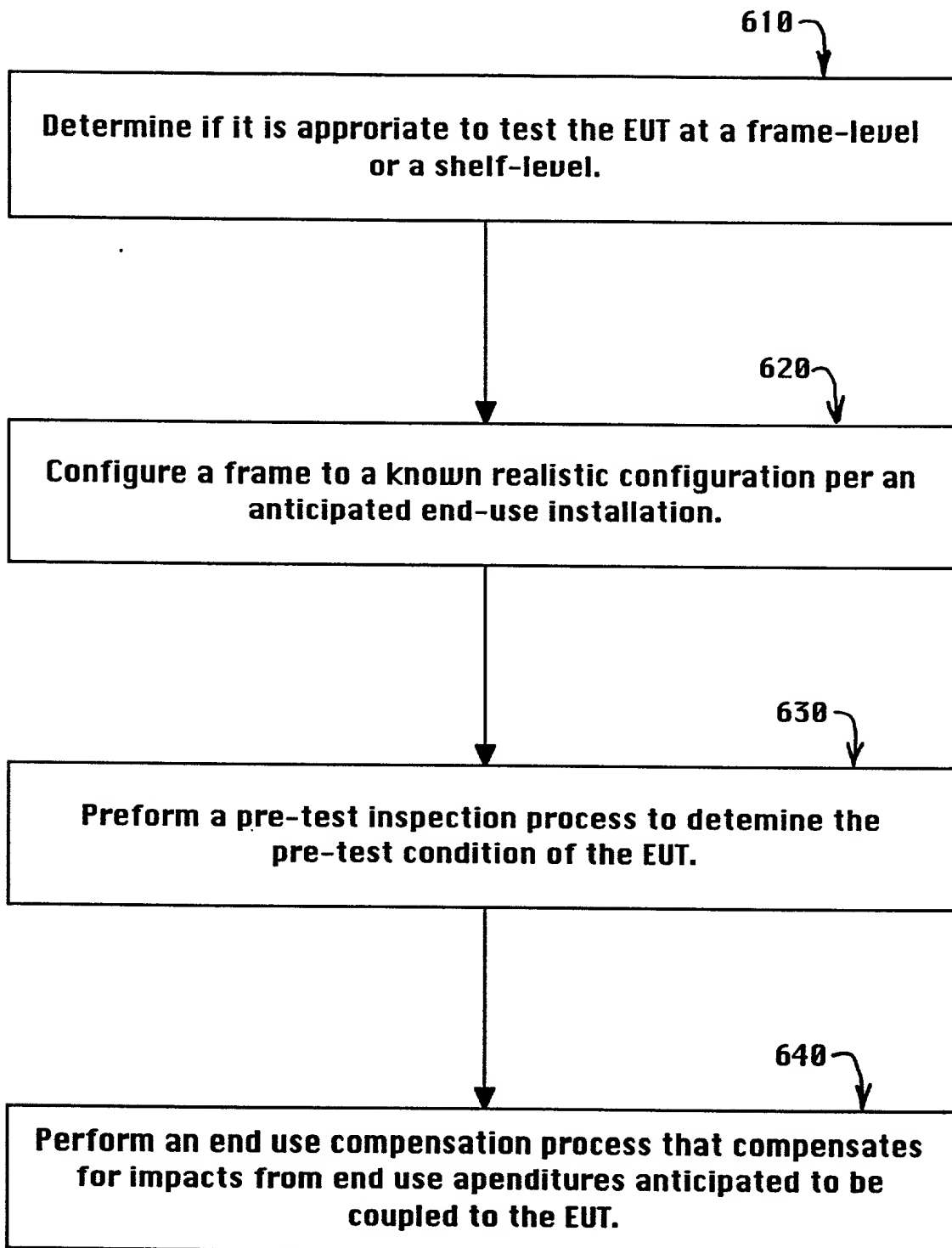


FIG 6

Test Parameter	Performance Criteria	Test Tolerance
VERTEQUI waveform	TRS shall meet or exceed RRS	TRS less than 30% over RRS from 1 to 7 Hz
Acceleration	synthesized waveform 1.6 G's peak for 30 seconds	Not Applicable
data sample rate	200 Hz	Not Applicable
test frame system weight	435 lbs (approximately)	+/- 5%
load-cell torque	up to 65 ft-lbs	+/- 1 ft-lb
Displacement (rack top)	76.2 mm maximum	+/- 5 mm

FIG 7

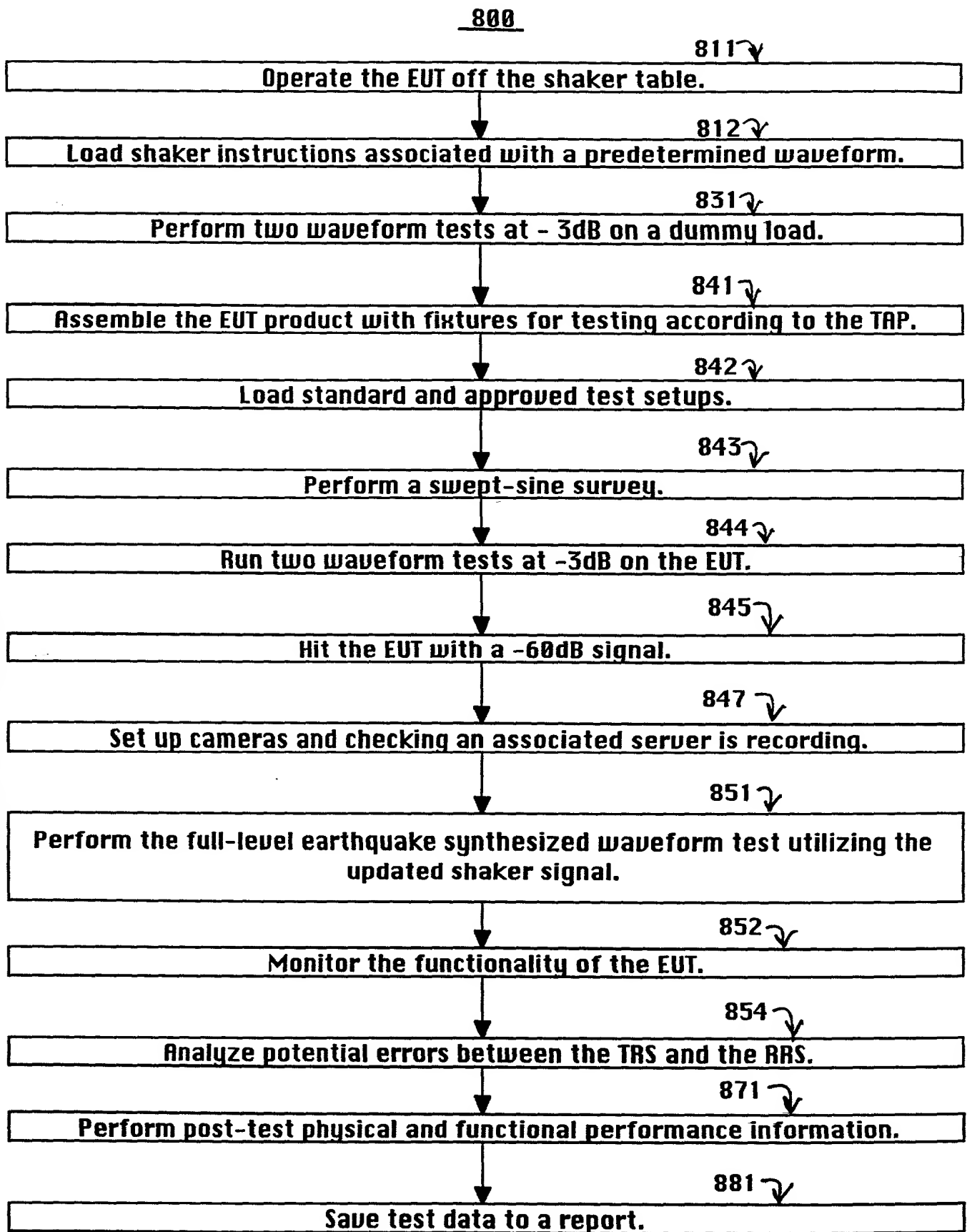


FIG 8

Test Parameter	Performance Criteria	Test Tolerance
Frequency Range	1 to 50 Hz	Not Applicable
Sweep Rate	1.0 octave/minute	Not Applicable
Acceleration	0.2 G's	+/- 0.02 G's
data sample rate	200 Hz	Not Applicable
test frame system weight	435 lbs (approximately)	+/- 5%

FIG 9

Model #	Code Name	Business Unit	BU Contact
Date	Vertical	Front-to-Back	Side-to-Side
Time			
Test Engineer or Technician			
Frame Top Resonant Frequency (Hz)			
EUT Resonant Frequency (Hz)			
Peak Acceleration Response at the top of the Frame (G)			
Displacement (inches or mm)			
Doors, Covers, Panels			
Cracks, Buckles, Visual inspection			
Bolt or Anchor Torque values (ft-lb)(4)			
Load Cell values (lb, all 4)			
LED Status during the Test			
Diagnostic or software function during the Test			
Comments			

FIG 10